

In the claims:

1. (Currently Amended) A process for producing plastic panels (20), ~~preferably from thermoplastic material~~, which are provided on at least one side with integral undercut attachment(s) ~~attachments (28) formed integrally with them, comprising~~
~~extruding the a plastic material being shaped by extruding from a flat die (2), and~~
~~subsequently passed~~
~~passing the plastic material through at least one roll nip,~~
~~wherein said roll nip is formed by two rolls (10, 11, 12), and~~
~~wherein at least one of said roll rolls is (11) being provided with molds (27) which~~
~~correspond to the undercut attachment(s) attachments and are filled with the polymer,~~
~~wherein the molds mold(s) are (27)~~
~~filled with the plastic material, and~~
~~provided in molding/demolding strips strip(s) (13) which are arranged over~~
~~the circumference of said at least one roll (11) and,~~
~~once the attachments (28) have left the roll nip, are moved~~
~~moving said molding/demolding strip(s) radially outward for the nondestructive~~
~~release of the formed undercut attachment (28) of the plastic panel, and~~
non-destructively releasing plastic panel(s) provided on at least one side with at least one integral undercut attachment.

2. (Cancelled)

3. (Currently Amended) The process as claimed in claim 1, wherein the radially outwardly moved molding/demolding strips (13) are moved back into their starting position after demolding of the attachments (28) produced in them.

4. (Currently Amended) The process as claimed in claim 1, wherein the molds (37) are arranged approximately half and half in molding/demolding strips (13) adjacent to each other.

5. (Currently Amended) The process as claimed in claim 1, wherein the plastic panel (20) is extruded in one or more layers.

6. (Currently Amended) The process as claimed in claim 5, wherein the plastic panel (20) is co-extruded with substrates made from a material other than the plastic panel, ~~such as metal plates, woven or nonwoven fabrics.~~

7. (Cancelled)

8. (Withdrawn) An apparatus for producing plastic panels (20), preferably from thermoplastic material, which are provided on at least one side with undercut attachments (28) formed integrally with them, with an extruder (1) and a flat die (2), through which the melted polymer can be fed to a roll nip formed by two rolls (10, 11, 12), at least one of the rolls (11) being provided with molds (27) which correspond to the undercut attachments (28), wherein the molds (27) are provided in molding/demolding strips (13) which are arranged over the circumference of at least one roll (11) and are designed such that, once the attachments (28) have left the roll nip, they can be moved for the nondestructive release of the formed undercut attachments (28) of the plastic panel (20).

9. (Withdrawn) The apparatus as claimed in claim 8, wherein the molding/demolding strips (13) are mounted such that they can be moved radially outward.

10. (Withdrawn) The apparatus as claimed in claim 8 wherein the molds (27) are provided approximately half and half in molding/demolding strips (13) adjacent to each other.

11. (Withdrawn) The apparatus as claimed in claim 8 wherein the molding/demolding strips (13) can be radially moved hydraulically or pneumatically by

means of piston/cylinder arrangements (16) arranged in the rolls (10, 11, 12).

12. (Withdrawn) The apparatus as claimed in claim 8 wherein a roll shell (17) of the rolls (10, 11, 12) is designed - in cross section - as a polygon with planar faces (25), and wherein the molding/demolding strips (13) in the state of rest bear against the faces (25) via corresponding planar supporting surfaces (26).

13. (Withdrawn) The apparatus as claimed in claim 8 wherein the molds (27) recessed into the molding/demolding strips (13) are designed as discrete inverted cones or pyramids.

14. (Withdrawn) The apparatus as claimed in claim 13, wherein the cone- or pyramid-shaped molds are provided as strip-shaped recesses arranged transversely to the direction of production of the plastic panel (20).

15. (Withdrawn) The apparatus as claimed in claim 8 wherein web profiles arranged transversely to the direction of production of the plastic panel (20) are formed.

16. (Withdrawn) A modification of the apparatus as claimed in claim 8 wherein, for the intermittent production of individual plastic panels, the molding/demolding strips (13) are provided on a planar plate, which interacts with a planar countersurface, the polymer being provided, in particular as granules, between the plate and countersurface, where it is able to melt.

17. (Withdrawn) A plastic panel (20) with integrally provided, undercut attachments, produced by the process as claimed in claim 1.

18. (Withdrawn) A plastic panel (20) with integrally provided, undercut attachments, produced on the apparatus as claimed in claim 8.

19. (New) The process of claim 1, wherein the plastic panel is made from thermoplastic material.
20. (New) The process of claim 1, wherein the thermoplastic material is polyethylene, polypropylene, PVC, PVDF, ETFE or E-CTFE.
21. (New) The process of claim 1, wherein the longitudinal axis of the molding/demolding strips is substantially parallel to the axis of said at least one roll.
22. (New) The process of claim 1, wherein the mold is undercut cylindrically, with positive or negative taper, pyramid shaped or a combination thereof.
23. (New) The process of claim 1, wherein molding/demolding strips are radially moved hydraulically or pneumatically.
24. (New) The process of claim 1, wherein said at least one roll is temperature controlled.
25. (New) The process of claim 24, wherein said at least one roll comprises cooling devices that substantially cool the entire surface of said roll.
26. (New) The process of claim 25, wherein said cooling devices are cooling bores.
27. (New) The process of claim 1, wherein said at least molding/demolding strips are removably installed.
28. (New) The process of claim 32, wherein the molds are arranged approximately half and half in molding/demolding strips adjacent to each other.
29. (New) The process of claim 32, wherein the plastic panel is extruded in one or

more layers.

30. (New) The process of claim 32, wherein the plastic panel is made from thermoplastic material.

31. (New) The process of claim 6, wherein the substrates made from material other than the plastic panel is one or more metal plates, woven or nonwoven fabrics or combinations thereof.

32. (New) A process for producing plastic panel(s) which are provided on at least one side with integral undercut attachment(s), comprising

extruding the plastic from a die, and

passing the plastic through at least one substantially planar surface of a heated plate and a countersurface,

wherein said at least one substantially planar surface is provided with mold(s) which correspond to the undercut attachment(s),

wherein the mold(s) are

filled with the plastic material, and

provided in molding/demolding strip(s) which are arranged movably on said at least one substantially planar surface and,

once the attachments have passed from between the planar surface and the countersurface, and

non-destructively releasing plastic panel(s) provided on at least one side with at least one integral undercut attachment by moving said molding/demolding strips radially outward.